

# Flo-Coater<sup>®</sup>

## Production Sized Fluid Bed Systems

The VFC Flo-Coater<sup>®</sup> System is uniquely engineered to meet the specific requirements for every installation.

Every VFC Flo-Coater<sup>®</sup> is backed by Vector's comprehensive range of services, including product and process development, process scale-up and transfer, calibration and maintenance programs, and proactive project management.

Simple-to-use, economical, and designed for maximum processing effectiveness, the VFC Flo-Coater<sup>®</sup> family is the ideal solution for your current and future fluid bed processing requirements.



## VFC

### Flo-Coater<sup>®</sup> Fluid Bed System

#### Engineered for Reduced Process Times

- Increased Product-To-Filter Distance for Increased Airflow and Spray Rates
- Tapered Expansion Chamber for Improved Product Movement through Spray Zone

#### Flexible System Configurations

- Top Spray Granulation and Drying Processes
- Scalable Capacities up to 1900L
- Full Range of Product, Solution, and Air Handling Options

#### Quick Changeover Design

- Easily Removable and Cleanable Cartridge Filters
  - Superior Particle Retention
  - Durable Design – 2 Year Service Life
- Optional Second Product Container to Minimize Downtime Between Batches



## Quick Changeover Design

- Easily Removable and Cleanable Cartridge Filters
  - Superior Particle Retention
  - Durable Design – 2 Year Service Life
- Optional Second Product Container to Minimize Downtime Between Batches

## Engineered for Safety of Personnel and Equipment

- 2-Bar Construction for Venting or Suppression

## Ideal Design for Granulation Suites

- Product Handling by Mechanical, Vacuum, or Gravity

## Validatable, Easy-To-Use Control System

- Automatic (Recipe Driven) and Manual Modes
- Optional Compu 4® Control System
  - 21 CFR Part 11 Data and Recipe Handling System
  - Control of Entire Granulation Suite with one OIP

VFC Model Sizes	Product Containers	
	Standard Sizes (L)	Increased Sizes (L)
VFC-30	100	120
VFC-60	220	250
VFC-120	420	500
VFC-200	660	800
VFC-300	1100	1200
VFC-500	1570	1900

# VFC-M

## Multi-Purpose Flo-Coater® System

### Engineered for Reduced Process Times

- Increased Product-To-Filter Distance for Increased Airflow and Spray Rates
- Tapered Expansion Chamber for Improved Product Movement through Spray Zone

### Flexible Processing with 3-Piece Construction

- Scalable Capacities from 3Kg to 950Kg
- Product Containers for Granulation and Drying
- Wurster Inserts for Bottom Spray Coating
- Granurex® Inserts for Spherical Coating and Layering
- Full Range of Product, Solution, and Air Handling Options

### Quick Changeover Design

- Perfect for WIP Cleaning Requirements
- Easily Removable and Cleanable Cartridge Filters
  - Superior Particle Retention
  - Durable Design - 2 Year Service Life

### Engineered for Safety of Personnel and Equipment

- 2-Bar Construction for Venting or Suppression

### Ideal Design for Granulation Suites

- Product Handling by Mechanical, Vacuum, or Gravity

### Validatable, Easy-To-Use Control System

- Automatic (Recipe Driven) and Manual Modes
- Optional Compu 4® Control System
  - 21 CFR Part 11 Data and Recipe Handling System
  - Control of Entire Granulation Suite with one OIP



# VFC-MX

## 12 Bar Multi-Purpose Flo-Coater® System

### Engineered for Reduced Process Times

- Increased Product-To-Filter Distance for Increased Airflow and Spray Rates
- Tapered Expansion Chamber for Improved Product Movement through Spray Zone

### Flexible Processing with 3-Piece Construction

- Scalable Capacities from 3Kg to 950Kg
- Non-Inflatable, Removable Air Seals for Easy Cleaning
- Product Containers for Granulation and Drying
- Wurster Inserts for Bottom Spray Coating
- Granurex® Inserts for Spherical Coating and Layering



### Full Containment Design

- In-Wall Design Minimizes Required Processing Area
- 12 Bar Pressure Tested Construction
- Cartridge Filters for Superior Particle Retention
- Optional CIP Configuration Available
  - Non-Removable Stainless Steel Cartridge Filters
  - Single Point Connection for Cleaning Solutions

### Ideal Design for Granulation Suites

- Product Handling by Mechanical, Vacuum, or Gravity

### Validatable, Easy-To-Use Control System

- Automatic (Recipe Driven) and Manual Modes
- Optional Compu 4® Control System
  - 21 CFR Part 11 Data and Recipe Handling System
  - Control of Entire Granulation Suite with one OIP

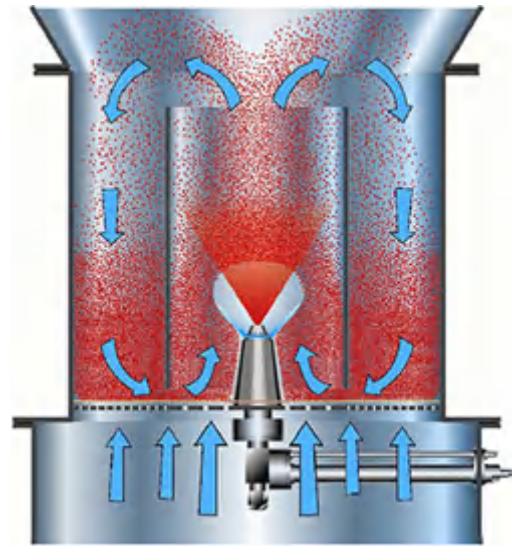
VFC-M Model Sizes	Product Containers		
	Reduced (L)	Std. (L)	Increased (L)
VFC-5M	6	20	27
VFC-15M	20	45	60
VFC-30M	45	100	120
VFC-60M	100	220	250
VFC-120M	220	420	500
VFC-200M	420	660	800
VFC-300M	660	1100	1200
VFC-500M	1200	1570	1900

# VFC Wurster Accelerator

The Vector Wurster Coating Accelerator System improves the performance of the Wurster column bottom spray coating systems.

Accelerated spray rates are used and the product movement is controlled into an enlarged fully atomized spray zone improving coating quality, uniformity and coating times.

The Accelerator spray gun uses increased atomization volume allowing for faster solution application rates and proper atomization of the coating solution. Vector's specially designed perforated plate optimizes particle movement through the spray zone.



VFC Model	Wurster Inserts		
	Size	Spray Guns	Volume (L)
VFC-5M	7"	1	12
	9"	1	22
	12"	1	50
VFC-15M	9"	1	22
	12"	1	50
VFC-30M	9"	1	22
	12"	1	50
	18"	1	165
VFC-60M	18"	1	165
	24"	1	260
	32"	3	570
VFC-120M	32"	3	570
VFC-200M	32"	3	570
	46"	6	970
VFC-300M	46"	6	970
VFC-500M	46"	6	970

# Granurex®

## One-Pot Fluid Bed Rotor Processor

### One-Pot Processor

- Unique Product Drying via Lowering Air Duct
- Tangential Discharge of Product with Optional Vacuum Assist

### Conical Rotor Plate

- Ideally Suited for Spherical Particle Processing
- Increased Product Capacity Compared to Flat Rotor
- Precision-Machined Slit for Narrow Particle Size Distribution, Superior Product Uniformity, and Fine Particle Processing

### Tangential Spray Guns

- Applies Coating Material Directly Into Product for Increased Yields Minimizing Spray Drying Losses



### Complete Processing Flexibility

- Low Airflow for Coating, Spheronization, and Layering
- High Airflow for Drying and Low Density Granulation
- Optional Powder Feeder for Layering or Spheronization Processes

### Full Containment Design

- In-Wall Design - Minimizes Required Processing Area
- 12-Bar Pressure Tested Construction
- Filter Lowering System Provides Easy Filter Removal

### Validatable, Easy-To-Use Control System

- Automatic (Recipe Driven) and Manual Modes
- Optional Compu 4® Control System
  - 21 CFR Part 11 Data and Recipe Handling System

Granurex® Model	Volume (L)	Capacity (Kg)
GX-95	47-142	33-99
GX-125	123-368	85-250



VFC Model	Flo-Coater® Granurex® Inserts	
	Size	Volume (L)
VFC-LAB 1	GXR-20	1.5
VFC-LAB 3	GXR-35	10
VFC-5M	GXR-35	10
VFC-15M	GXR-35	10
VFC-30M	GXR-35	10
	GXR-65	50
VFC-60M	GXR-65	50